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PROVISIONAL SPECIFICATION.

Improvements in Folding Articles of Cutlery, Surgical Instruments, and the like.

A communication from JEAN NICOLAS THOUVENEL-MICHELIN, of Nogent, Haute Marne, in the Republic of France.

I, ALFRED JULIUS BOULT of 323 High Holborn in the County of Middlesex, Chartered Patent Agent, do hereby declare the nature of this invention to be as follows:—

The object of this invention is to provide a new and improved spring, for cutlery, surgical instruments, and like articles which are made to fold or otherwise close, such as scissors, pocket knives, bistouries, *etc.*

Such spring forms an integral part of the branches, handles or blades, from which it is inseparable, being formed in the body of the article. Its outer end is formed with a little heel adapted to catch and lock the opened part at the moment of use.

The following are some of the advantages of the improved spring.

First, its extreme strength, in comparison with the work of resilience which it has to effect, which makes it unbreakable notwithstanding its great rigidity.

Further, the great facility which is afforded for maintaining the cleanliness of the articles to which it is applied, inasmuch as all parts are accessible and can be thoroughly cleansed; this is notably the case with pocket-knives whereof the cheeks are only joined together at the extremities, and the remainder being exposed makes it perfectly easy to keep them clean and in good order.

In a pair of folding scissors the springs are formed out of the solid on the branches or handles and are adapted to fit into recesses formed in the solid butt-ends of the blades when in their operative position.

When the scissors are folded as when ready for the pocket the springs are not in engagement with the recesses and inoperative.

In a folding or pocket knife the spring is formed in the solid at the butt-end of the knife-blade, and when the blade is fitted to the haft the spring on the blade fits into a recess formed in a preferably steel connecting-piece rivetted to the two cheeks by two or more pins.

Dated this 4th day of September 1893.

W. P. THOMPSON & BOULT,
London, Nottingham, Liverpool, and Manchester,
Agents for the Applicant.

COMPLETE SPECIFICATION.

Improvements in Folding Articles of Cutlery, Surgical Instruments, and the like.

A communication from JEAN NICOLAS THOUVENEL-MICHELIN, of Nogent, Haute Marne, in the Republic of France.

I, ALFRED JULIUS BOULT of 323 High Holborn in the County of Middlesex, Chartered Patent Agent, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

The object of this invention is to provide a new and improved spring, for cutlery

[*Price 8d.*]

Boult's Impts. in Folding Articles of Cutlery, Surgical Instruments, and the like.

surgical instruments, and like articles which are made to fold or otherwise close, such as scissors, pocket-knives, bistouries *etc.*

Such spring forms an integral part of the branches, handles or blades, from which it is inseparable, being formed in the body of the article. Its outer end is formed with a little heel adapted to catch and lock the opened part at the moment of use. 5

The following are some of the advantages of the improved spring.

First, its extreme strength, in comparison with the work of resilience which it has to effect, which makes it unbreakable notwithstanding its great rigidity.

Further, the great facility which is afforded for maintaining the cleanliness of the articles to which it is applied, inasmuch as all parts are accessible and can be thoroughly cleansed; this is notably the case with pocket-knives whereof the cheeks are only joined together at the extremities, and the remainder being exposed makes it perfectly easy to keep them clean and in good order. 10

The accompanying drawings show two examples of the use of this spring. 15

In a pair of folding scissors as illustrated in Figure 1 the springs A A¹ are formed out of the solid on the branches or handles B B¹ and are adapted to fit into recesses C formed in the solid butt-ends of the blades when in their operative position.

When the scissors are folded as when ready for the pocket as shown in Figures 2 and 3, the springs are not in engagement with the recesses C C¹ and inoperative. 20

In a folding or pocket knife as shown in Figure 4, the spring D is formed in the solid at the butt-end of the knife-blade, and when as shown in Figure 5 the blade is fitted to the haft, the spring D on the blade fits into a recess E formed in a preferably steel connecting-piece rivetted or otherwise secured to the two cheeks by two or more pins. 25

In Figure 5 the knife is shown as with a portion of one side of the haft removed so as to more clearly illustrate the invention.

Having now particularly described and ascertained the nature of the said invention as communicated to me by my foreign correspondent, and in what manner the same is to be performed I declare that what I claim is;— 30

1. The improved spring for folding articles of cutlery and surgical instruments, such as scissors, knives, bistouries and the like substantially as described and shown in the accompanying drawings. 35

2. In a pair of folding scissors the combination with the blades having recesses of handles having springs to engage with the recesses substantially as described and illustrated in the accompanying drawings.

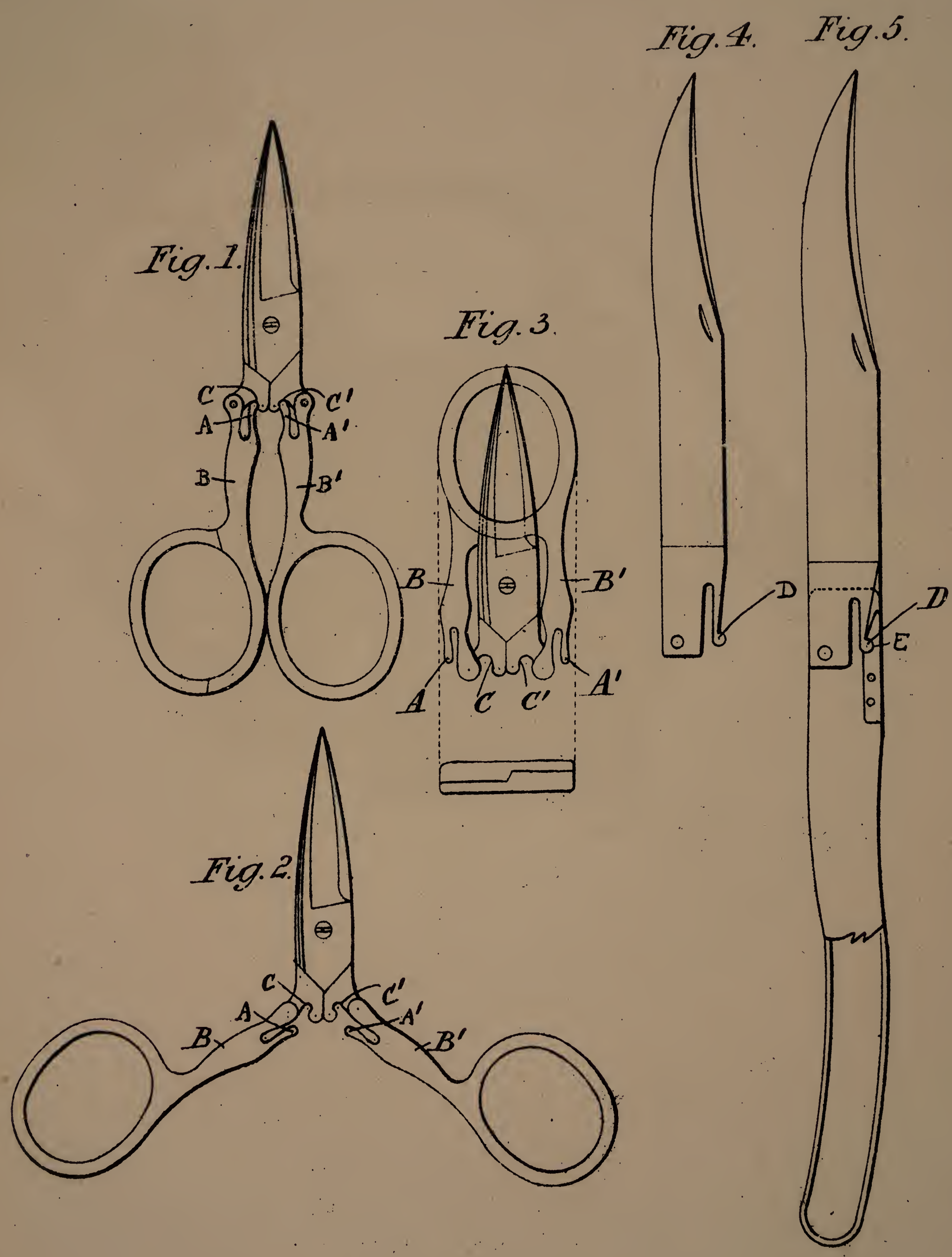
3. A knife blade having a spring such as D formed in part with it substantially as described and illustrated in the accompanying drawings. 40

4. In a pocket knife the combination with the blade having a fixed spring such as D of a haft having a recess such as E substantially as described and illustrated in the accompanying drawings.

Dated this 4th day of June 1894.

W. P. THOMPSON & BOULT, 45
Agents for the Applicant.





[This Drawing is a reproduction of the Original on a reduced scale]

